

# **SD SERIES**

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## **Cutter/Plotter**

### **Assembly and Owners Guide**

#### **Models**

**SD-720/800/960/1120/1360**



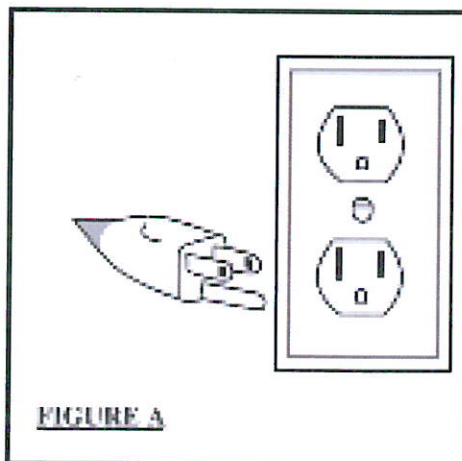
## GROUNDING



**Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the unit. Never remove the grounding prong from the plug. Do not use the unit if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.**

### UNITS WITH THREE PRONG PLUGS

1. Units marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the unit should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See Figure A.)
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal. (See Figure A.)
3. Your unit must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration. (See Figure A.)
4. Grounded units must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the unit should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.



## ELECTRICAL SAFETY

5. Double insulated units are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
6. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
7. **Do not expose cutting unit to rain or wet conditions.** Water entering a cutting unit will increase the risk of electric shock.
8. **Do not abuse the Power Cord. Never use the Power Cord to carry the unit or pull the Plug from an outlet.** Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately. Damaged Power Cords increase the risk of electric shock.
9. **When operating a cutting unit outside, use an outdoor extension cord marked "W-A" or "W".** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

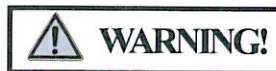
## PERSONAL SAFETY

10. **Stay alert. Watch what you are doing, and use common sense when operating a cutting unit. Do not use a cutting unit while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating cutting unit may result in serious personal injury.
11. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
12. Avoid accidental starting. Be sure the Power Switch is off before plugging in. Carrying cutting unit with your finger on the Power Switch, or plugging in cutting unit with the Power Switch on, invites accidents.
13. **Remove adjusting keys or wrenches before turning the cutting unit on.** A wrench or a key that is left attached to a rotating part of the cutting unit may result in personal injury.

## UNIT USE AND CARE

14. **Do not use the cutting unit if the Power Switch does not turn it on or off.**  
Any unit that cannot be controlled with the Power Switch is dangerous and must be replaced.
15. **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the unit.** Such preventive safety measures reduce the risk of starting the unit accidentally.
16. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
17. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with a sharp cutting edge are less likely to bind and are easier to control. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
18. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the unit's operation. If damaged, have the unit serviced before using.** Many accidents are caused by poorly maintained equipment.
19. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one unit may become hazardous when used on another unit.

## SERVICE



22. **Unit service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
23. **When servicing, use only identical replacement parts. Follow instructions in this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

## PRODUCT SPECIFICATIONS

Model	SD-720	SD-800	SD-960	SD-1120	SD-1360
Max paper width	720mm	800mm	960mm	1120mm	1360mm
Max cutting area	630mm	700mm	800mm	1000mm	1200mm
Stand	Optional	Optional	Included	Included	Included
Gross weight	14kg	15kg	22kg	31kg	34kg
Memory buffer	1M	1M	1M	1M	1M
Cutting speed	25-500mm/s				
Cutting pressure	25-400g / 16 levels				
Cutting resolution	0.0125mm/step				
Computer interface	RS232 Series				
Power Consumption	60'W-120W				
Power	110/AC				
Operating Temperature	0-45° ~ 5-95% Humidity				

## FEATURES

- Forward and reverse paper feeding.
- Stop by express. You can configure starting point anywhere you want.
- High speed cutting at 500mm/s.
- Protection Mode. Double-photoelectric placement never allowing trolley to make contact with frame.
- Output perfectly. No jagged edges when speed is high.
- Subdivisional circuitry. The latest technique and low noise.
- Rocker power switch. Not effected by pressure.
- Advanced circuit design. Uses low power and runs effectively for hours.
- ARTCUT or MASTERCUT software included.
- Easy Communication. Features both a USB port and serial port.

## SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.



**WARNING!**

**READ AND UNDERSTAND ALL INSTRUCTIONS**  
**Failure to follow all instructions listed below may result in**  
**electric shock, fire, and/or serious injury.**  
**SAVE THESE INSTRUCTIONS**

## PARTS LIST

Description	Quantity	Specification
Cutter/Plotter	1	SD-Series
Graver	1	Offset 0.25mm
Graver Seat	1	-
Pen Core	1	0.4mm/72eA
Pen Core Seat	1	-
Communication Cable(s)	2	-
Power Cord	1	-
<b>Optional Stand Parts</b>		
Hardware Bag	1	-
Wall Board Holder	2	-
Post stand	2	-
Shelf Cross-Beam	1	-
Wheels	4	-
Stand Base	2	-
Reel Brackets	2	-
Reel	1	-

## ASSEMBLY DIAGRAM

Description	Diagram #	Quantity
Wall Board Holder	1	2
Post stand	2	2
Shelf Cross-Beam	3	1
Wheels	4	4
Stand Base	5	2
Reel Brackets	6	2
Reel	7	1

